

STRUCTURE 344

This structure is a two-barreled, corrugated metal pipe culvert located through L-28 about 9 miles north of U.S. 41. Control is effected by slide gates.

PURPOSE

This structure permits discharge from Water Conservation Area 3A during periods of excessively high stages, and extends the hydroperiod in the Big Cypress National Preserve during dry periods.

OPERATION

Normally, this structure is closed. It is opened only during periods when WCA 3A is above schedule. The Loop Road 1 gauge should be kept below 8.5. The roadway could be flooded when stage is too high.

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	<u>135</u> cfs
	* <u> </u> % SPF
Headwater Elevation	<u>9.9</u> feet
Tailwater Elevation	<u>9.7</u> feet

*Design not related to SPF

DESCRIPTION OF STRUCTURE

Type:	<u>Corrugated metal pipe culverts with upstream control.</u>
Number of barrels	<u>2</u>
Size of barrel	<u>72 inches</u>
Length of barrel	<u>78 feet</u>
Flow line elevation	<u>1.0 feet</u>
Crest Elevation	<u>17.5 feet</u>
Water level which will by-pass structure	<u>17.5</u> feet

Gates

Number 2

Type

Size

Control manual

Lifting Mechanism

Discharge capacity per culvert: $150 (H)^{1/2}$ cfs

ACCESS Structure is reached via about 12 miles of dirt road atop L-29 and L-28 from U.S. 41 at S-12A.

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level Upstream and downstream staff gauges only